

## CLAIMS:

1. An optical recording medium comprising at least one recording layer containing as a primary component an alloy containing at least two elements selected from the group consisting of Fe, Al and Si.
- 5 2. An optical recording medium in accordance with Claim 1, wherein the alloy contained in the at least one recording layer as a primary component has a composition  $[x_1, y_1, z_1]$  in terms of the ternary composition diagram that falls within a region of a pentagon defined by  
10 straight lines connecting points  $[57, 43, 0]$ ,  $[0, 55, 45]$ ,  $[15, 0, 85]$ ,  $[89, 11, 0]$  and  $[0, 16, 84]$  in the ternary composition diagram.
3. An optical recording medium in accordance with Claim 1, which further comprises a dielectric layer on at least one side of the at least one  
15 recording layer.
4. An optical recording medium in accordance with Claim 2, which further comprises a dielectric layer on at least one side of the at least one recording layer.
- 20 5. An optical recording medium in accordance with Claim 1, which further comprises dielectric layers on opposite sides of the at least one recording layer.
- 25 6. An optical recording medium in accordance with Claim 2, which further comprises dielectric layers on opposite sides of the at least one recording layer.

7. A method for manufacturing an optical recording medium comprising of a step of forming at least one recording layer of an optical recording medium by a sputtering process using a target that contains as  
5 a primary component an alloy containing at least two elements selected from the group consisting of Fe, Al and Si, the alloy contained therein as a primary component having a composition  $[x_2, y_2, z_2]$  in terms of a ternary composition diagram in which  $x_2$ ,  $y_2$  and  $z_2$  represent atomic ratios (atomic %) of Fe, Al and Si. and each of  $x_2$ ,  $y_2$  and  $z_2$  is defined to fall  
10 within a region of a pentagon defined by straight lines connecting a point A' [55, 45, 0], a point B' [0, 50, 50], a point C' [9, 0, 91], a point D' [87, 13, 0] and a point E [0, 10, 90] in the ternary composition diagram.

8. A target used for a sputtering process that contains as a primary  
15 component an alloy containing at least two elements selected from the group consisting of Fe, Al and Si, the alloy contained therein as a primary component having a composition  $[x_2, y_2, z_2]$  in terms of a ternary composition diagram in which  $x_2$ ,  $y_2$  and  $z_2$  represent atomic ratios (atomic %) of Fe, Al and Si. and each of  $x_2$ ,  $y_2$  and  $z_2$  is defined to fall  
20 within a region of a pentagon defined by straight lines connecting a point A' [55, 45, 0], a point B' [0, 50, 50], a point C' [9, 0, 91], a point D' [87, 13, 0] and a point E [0, 10, 90] in the ternary composition diagram.